

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| S1    | 1    | 10/588013   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/02/19<br>21:12 |
| S2    | 747  | 137/538.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/02/20<br>09:55 |
| S3    | 274  | 137/538.ccls. and<br>chamber  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/02/20<br>11:13 |
| S4    | 747  | 137/538.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | OFF     | 2009/02/20<br>11:53 |
| S5    | 6    | ("3344806"   "4176680"<br>  "4699171"  <br>"5285813").PN. OR<br>("7331361").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR               | OFF     | 2009/02/20<br>11:55 |
| S6    | 7    | ("3344806").URPN.   | USPAT  | OR               | OFF     | 2009/02/20<br>11:57 |
| S7    | 17   | ("3344806"   "3683957"<br>  "3707984"   "4257452"<br>  "4294278"   "4880030"<br>  "5158207"   "5320135"<br>  "5336166"   "5365974"<br>  "5713387"   "5829478"<br>  "6374852").PN. OR<br>("6634375").URPN. | US-PGPUB;<br>USPAT; USOCR                          | OR               | OFF     | 2009/02/20<br>12:00 |
| S8    | 1    | "5924244".pn.   | US-PGPUB;<br>USPAT; USOCR                          | OR               | OFF     | 2009/02/20<br>12:02 |
| S9    | 845  | 251/172.ccls.   | US-PGPUB;<br>USPAT; USOCR                          | OR               | OFF     | 2009/02/20<br>12:03 |
| S10   | 530  | 251/172.ccls. not ball  | US-PGPUB;<br>USPAT; USOCR                          | OR               | OFF     | 2009/02/20<br>12:05 |
| S11   | 12   | ("3233862"   "3680596"<br>  "3955796"   "4010772"<br>  "4026515"   "4208035"<br>  "4911407"   "5031923"<br>  "5137259").PN. OR<br>("5722637").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR               | OFF     | 2009/02/20<br>12:07 |

|     |      |  |                           |    |     |                     |
|-----|------|--|---------------------------|----|-----|---------------------|
| S12 | 51   | 251/172.ccls. and slid\$4 and (behind with pressur \$4)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:10 |
| S13 | 17   | ("3114561"   "4434967"<br>  "4741509"   "4878651"<br>  "5029812"   "5090661"<br>  "5201872"   "5341835"<br>  "5533738"   "5624101"<br>  "5727775"   "6082707"<br>  "6260822"   "6279875"<br>  "6664572").PN. OR<br>("7004452").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:11 |
| S14 | 845  | 251/172.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:18 |
| S15 | 17   | ("3114561"   "4434967"<br>  "4741509"   "4878651"<br>  "5029812"   "5090661"<br>  "5201872"   "5341835"<br>  "5533738"   "5624101"<br>  "5727775"   "6082707"<br>  "6260822"   "6279875"<br>  "6664572").PN. OR<br>("7004452").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:19 |
| S16 | 17   | ("3114561"   "4434967"<br>  "4741509"   "4878651"<br>  "5029812"   "5090661"<br>  "5201872"   "5341835"<br>  "5533738"   "5624101"<br>  "5727775"   "6082707"<br>  "6260822"   "6279875"<br>  "6664572").PN. OR<br>("7004452").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:19 |
| S17 | 1917 | 137/494.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:20 |
| S18 | 404  | 137/494.ccls. and (seal<br>or o-ring or oring)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:21 |
| S19 | 442  | 137/494.ccls. and (seal<br>or o-ring or oring)   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/20<br>12:21 |
| S20 | 398  | 137/494.ccls. and (seal<br>or o-ring or oring) and<br>spring   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/20<br>12:21 |
| S21 | 142  | 137/494.ccls. and (seal<br>or o-ring or oring) and<br>spring and (throttle or<br>orifice)  | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/20<br>12:21 |
| S22 | 54   | 137/494.ccls. and (seal<br>or o-ring or oring) and<br>spring and (throttle or<br>orifice) and (relief or<br>reliev\$4)   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/20<br>12:22 |

|     |      |  |                           |    |     |                     |
|-----|------|--|---------------------------|----|-----|---------------------|
| S23 | 23   | 137/538.ccls. and (seal or o-ring or oring) and spring and (throttle or orifice) and (relief or reliev\$4)               | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/02/20<br>12:23 |
| S24 | 5    | ("3763882"   "4552172"   "4660595").PN. OR ("5215116").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:28 |
| S25 | 16   | ("1108950"   "2616445"   "3338263"   "4171712"   "4284101"   "4313463").PN. OR ("4660595").URPN.                         | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:28 |
| S26 | 21   | ("2437814"   "3132869"   "3482594"   "4172470").PN. OR ("4313463").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:29 |
| S27 | 16   | ("1108950"   "2616445"   "3338263"   "4171712"   "4284101"   "4313463").PN. OR ("4660595").URPN.                         | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:31 |
| S28 | 10   | ("3132869").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>12:34 |
| S29 | 23   | ("2886058"   "2890714"   "3482594"   "3548867").PN. OR ("4552172").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:36 |
| S30 | 9    | ("4191210"   "4552172").PN. OR ("4898206").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:39 |
| S31 | 23   | ("2886058"   "2890714"   "3482594"   "3548867").PN. OR ("4552172").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:40 |
| S32 | 23   | ("2287840"   "3482415"   "3482594"   "3548867"   "4274435"   "4284101"   "4313463"   "4552172").PN. OR ("4716928").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:41 |
| S33 | 1917 | 137/494.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:48 |
| S34 | 418  | 137/494.ccls. and (relief or reliev\$4)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:49 |
| S35 | 1    | ("2600875").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>12:54 |
| S36 | 1    | ("2611390").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>12:54 |

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|-----|----|--|---------------------------|----|-----|---------------------|
| S37 | 1  | ("2611390").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>12:56 |
| S38 | 1  | ("2630825").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>12:56 |
| S39 | 3  | ("2644481").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>12:58 |
| S40 | 30 | ("0785137"   "0973663"<br>  "1785289"   "2644481"<br>  "2705020"   "3107693"<br>  "3363412"  <br>"3545479").PN. OR<br>("3768518").URPN.                      | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>12:59 |
| S41 | 3  | ("2644481").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>13:00 |
| S42 | 7  | ("2655173").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>13:03 |
| S43 | 12 | ("20050097880"  <br>"2655173"   "3103950"  <br>"3292656"   "4176680"  <br>"4256137"   "4648424"  <br>"6390129"   "6474359").<br>PN. OR ("7464722").<br>URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>13:04 |
| S44 | 8  | ("2655173").PN. OR<br>("4256137").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>13:07 |
| S45 | 24 | ("2206356"   "2633147"<br>  "2655173"   "2745432"<br>  "3234959"   "3344806"<br>  "3384111"  <br>"3943969").PN. OR<br>("4176680").URPN.                      | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>13:11 |
| S46 | 12 | ("0865631"   "1292962"<br>  "2481018"   "2655173"<br>  "3344806"   "3805826"<br>  "4176680").PN. OR<br>("4901757").URPN.                                     | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>13:12 |
| S47 | 1  | ("1292962").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>13:16 |
| S48 | 1  | ("865631").URPN.   | USPAT                     | OR | OFF | 2009/02/20<br>13:16 |
| S49 | 1  | ("1292962").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>13:16 |
| S50 | 5  | ("3292656").URPN.  | USPAT                     | OR | OFF | 2009/02/20<br>13:19 |

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|-----|------|--|------------------------|----|-----|------------------|
| S51 | 12   | ("20050097880"   "2655173"   "3103950"   "3292656"   "4176680"   "4256137"   "4648424"   "6390129"   "6474359").PN. OR ("7464722").URPN.         | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 13:21 |
| S52 | 11   | "3344806"  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 13:23 |
| S53 | 8    | ("2655173").PN. OR ("4256137").URPN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 13:27 |
| S54 | 13   | ("2655173"   "3423023"   "3782410"   "4128209").PN. OR ("4403627").URPN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 13:31 |
| S55 | 16   | ("3482594"   "4284101"   "4530373"   "4552172"   "4790347").PN. OR ("5168895").URPN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 13:44 |
| S56 | 4    | ("3996965"   "5168895").PN. OR ("5676172").URPN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 13:45 |
| S57 | 19   | ("2333522"   "2625174"   "3174410"   "3482594"   "3613716"   "4135541"   "4530373"   "4597410"   "4716928"   "5168895").PN. OR ("5400817").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 13:49 |
| S58 | 12   | ("3233862"   "3680596"   "3955796"   "4010772"   "4026515"   "4208035"   "4911407"   "5031923"   "5137259").PN. OR ("5722637").URPN.             | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 14:23 |
| S59 | 12   | ("3233862"   "3680596"   "3955796"   "4010772"   "4026515"   "4208035"   "4911407"   "5031923"   "5137259").PN. OR ("5722637").URPN.             | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 14:23 |
| S60 | 2198 | 251/172,175,186.ccls.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 14:25 |
| S61 | 22   | S60 and (square or rectang\$4) near2 (seal or o-ring or oring)   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 14:25 |
| S62 | 78   | S60 and (square or rectang\$4) with (seal or o-ring or oring)  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/02/20 15:06 |

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|-----|----|--|---------------------------|----|-----|---------------------|
| S63 | 27 | ("2861771"   "3090630"<br>  "3307826"   "3416558"<br>  "3521855"   "3972507"<br>  "4068821"   "4252352"<br>  "4353525"   "4372530"<br>  "4741509"   "4878651"<br>  "5139274"   "5201872"<br>  "5205536"   "5431415"<br>  "5639102"   "6123340"<br>  "6260822"   "6279875"<br>  "6345805"  <br>"6494465").PN. OR<br>("6966537").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>15:07 |
| S64 | 26 | ("2427789"   "2733969"<br>  "3033597"   "3090630"<br>  "3154006"   "3514115"<br>  "3841193"   "3860271"<br>  "3953213"   "4243433"<br>  "4281580"   "4326826"<br>  "4739997"   "4854798"<br>  "5468106"   "5518255"<br>  "5730569").PN. OR<br>("6494465").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>15:16 |
| S65 | 1  | "5924244".pn.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>15:21 |
| S66 | 1  | "5924444".pn.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>15:22 |
| S67 | 22 | ("1250503"   "1539865"<br>  "2505949"   "3426787"<br>  "3450147"   "3491786"<br>  "4072048"   "4076037"<br>  "4246930"   "4313463"<br>  "4790347"   "5094266"<br>  "5181977"   "5203372"<br>  "5285813"  <br>"5316033").PN. OR<br>("5924444").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>15:23 |
| S68 | 26 | ("2941544"   "3195901"<br>  "3351350"   "3771799"<br>  "4186929"   "4189157"<br>  "4262759"   "4387901"<br>  "4579041"   "4696223"<br>  "4702482"   "4848778"<br>  "4867460"  <br>"4944498").PN. OR<br>("5139274").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/02/20<br>15:38 |

|     |      |  |                                   |    |     |                     |
|-----|------|--|-----------------------------------|----|-----|---------------------|
| S69 | 27   | ("2861771"   "3090630"<br>  "3307826"   "3416558"<br>  "3521855"   "3972507"<br>  "4068821"   "4252352"<br>  "4353525"   "4372530"<br>  "4741509"   "4878651"<br>  "5139274"   "5201872"<br>  "5205536"   "5431415"<br>  "5639102"   "6123340"<br>  "6260822"   "6279875"<br>  "6345805"  <br>"6494465").PN. OR<br>("6966537").URPN. | US-PGPUB;<br>USPAT; USOCR         | OR | OFF | 2009/02/20<br>15:39 |
| S70 | 7    | "0096303"  | US-PGPUB;<br>USPAT; USOCR         | OR | OFF | 2009/02/20<br>15:44 |
| S71 | 22   | ("1250503"   "1539865"<br>  "2505949"   "3426787"<br>  "3450147"   "3491786"<br>  "4072048"   "4076037"<br>  "4246930"   "4313463"<br>  "4790347"   "5094266"<br>  "5181977"   "5203372"<br>  "5285813"  <br>"5316033").PN. OR<br>("5924444").URPN.  | US-PGPUB;<br>USPAT; USOCR         | OR | OFF | 2009/02/20<br>15:58 |
| S72 | 0    | "0096303"  | EPO                               | OR | OFF | 2009/02/20<br>16:04 |
| S73 | 0    | "096303"   | EPO                               | OR | OFF | 2009/02/20<br>16:04 |
| S74 | 2    | "3482594".pn.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO | OR | OFF | 2009/02/20<br>16:05 |
| S75 | 2    | "1117550".pn.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO | OR | OFF | 2009/02/20<br>16:06 |
| S76 | 2    | "1292962".pn.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO | OR | OFF | 2009/02/20<br>16:28 |
| S77 | 0    | de200500028  | US-PGPUB;<br>USPAT;<br>USOCR; EPO | OR | OFF | 2009/02/20<br>16:40 |
| S78 | 2    | "200500028"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO | OR | OFF | 2009/02/20<br>16:40 |
| S79 | 1393 | 251/175.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO | OR | OFF | 2009/02/20<br>16:42 |
| S80 | 2211 | 251/172,175,186.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO | OR | OFF | 2009/02/20<br>16:45 |

|     |     |   |                                   |    |     |                     |
|-----|-----|---|-----------------------------------|----|-----|---------------------|
| S81 | 184 | 251/172,175,186.ccls.<br>and (behind)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO | OR | OFF | 2009/02/20<br>16:45 |
| S82 | 19  | ("3497177").URPN.   | USPAT                             | OR | OFF | 2009/02/20<br>16:52 |
| S83 | 7   | ("3497177"   "3504884"<br>  "3612483"  <br>"4508315").PN. OR<br>("4892287").URPN. | US-PGPUB;<br>USPAT; USOCR         | OR | OFF | 2009/02/20<br>16:52 |

2/20/2009 7:22:48 PM

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